

MECHANISM TO ACCESS, CHANGE, AND SYNCHRONIZE INTERNETWEB PAGES IN STAND-ALONE (NOT CONNECTED) MODE

## SUMMARY DESCRIPTION

Web-browser applications are developed to operate only when connected on the Internet to the Web-Server, which is located on a remote platform from the web-browser application. This invention enables a web-browser-based application (local web application) to operate while not connected to the remote web-server. The local web application relies on the presence of a local web-server on the same device. The device can be any that supports a web-server that has a Java Virtual Machine. A Java Servlet is downloaded to the device, which runs on the local web-server. The local web application performs its operations when it is connected to the Internet. All web-pages downloaded to the device are cached at the local web-server. The local web application has its URL set to the local web server, which interfaces and communicates to the remote web server for new web pages and to synchronize data.

When the local web application is not connected to the Internet, the local web-server is used as the proxy, enabling the user to continue his/her interactions, entering and modifying data on the web pages that are cached at the local web server, and committing (submitting) the changes. The local web-server's Java Servlet stores the data entries separately from the web page, and keeps them in a local JDBC-compliant database. When the device is connected to the Internet, the Java Servlets ends the data entries automatically to a remote Java Servlet application on the remote web server, which in turn updates the remote database and associated web pages.

The practice of the present invention may be further accomplished by reference to copending and commonly owned U.S. patent applications entitled: *Enterprise Scheduling System; Meta-Language and Mechanisms for Configurable Rules-Based Work Assignment; Solution; Scheduling Across Multiple Days; and Mechanism to Schedule and Manage Complex Orders*. The foregoing patent applications were filed in the U.S. on March 31, 2000, the same date as the present application, and are incorporated herein by reference in their entirety.

In addition, the present invention may also be practiced with the methods and systems described in pending U.S. patent applications: SN: 09/087,828, originally entitled *Representational Control For Optimized Routing Solutions*; SN: 09/158,309, originally entitled *Configurable Weighting Of Representational Controls To Obtain An Optimal Routing Solution*; SN: 09/294,251, originally entitled *Method And System For Allocating Personnel And Resources To Efficiently Complete Diverse Work Assignments*; S/N: 09/327,228, originally entitled *Method And System For Allocating Specific Appointment Time Windows In A Service Industry*; SN: 60/178,576, entitled *Multilayer Engine Using Generic Controls For Optimal Routing Schemes*; and S/N 60/184,186, entitled *Data Formats And Usage For Massive Point-To-Point Route Calculation*, each of which are incorporated herein by reference in their entirety.